

INTERNATIONAL SEARCH REPORT

Express Mail No. EV669612485US

International Application No

PCT/US2004/019489

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, EMBL, WPI Data, Sequence Search, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/18050 A (HOON MARK ; MUELLER KEN (US); RYBA NICK (US); US HEALTH (US); UNIV CAL) 15 March 2001 (2001-03-15)	1, 17, 18
Y	*Sequences 1 and 2, Sequences 19, 20*	2-5, 8-49
A	& LIPSHUTZ R J ET AL: "High density synthetic oligonucleotide arrays" NATURE GENETICS, NEW YORK, NY, US, vol. 21, January 1999 (1999-01), pages 20-24, XP002182912 ISSN: 1061-4036	2
X	----- DATABASE DBSNP 19 July 2001 (2001-07-19), GENAISSANCE: "ss3181754" XP002302158 retrieved from NCNI Database accession no. RS2234233	6, 7, 19, 20, 23
Y	the whole document -/--	8-49



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&" document member of the same patent family

Date of the actual completion of the international search

25 February 2005

Date of mailing of the international search report

21.03.2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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	& DATABASE DBSNP 2 January 2001 (2001-01-02), TSC-CSHL: "submitted SNP details" retrieved from NCBI Database accession no. SS2718533 the whole document -----	
X	DATABASE DBSNP 2 January 2001 (2001-01-02), TSC-CSHL: "ss2718533" XP002302159 retrieved from NCBI Database accession no. RS41469 the whole document	6,7
Y	the whole document	8-33,37, 38,45-49
Y	----- KIM UN-KYUNG ET AL: "Positional cloning of the human quantitative trait locus underlying taste sensitivity to phenylthiocarbamide." SCIENCE. 21 FEB 2003, vol. 299, no. 5610, 21 February 2003 (2003-02-21), pages 1221-1225, XP002301614 ISSN: 1095-9203 cited in the application the whole document	8-16, 26-49
X	----- WO 01/77676 A (SENOYX INC) 18 October 2001 (2001-10-18) the whole document	1,17,18, 34
Y	the whole document	26-49
X	----- DATABASE DBSNP 27 July 2000 (2000-07-27), "refSNP ID: rs597468" XP002317831 retrieved from NCBI Database accession no. RS597468 cited in the application	6,7
Y	abstract	2-5
X	----- DATABASE Geneseq 'Online! 18 July 2001 (2001-07-18), "Human secreted protein-encoding gene 8 cDNA clone HBBBC71, SEQ ID NO:18." XP002317832 retrieved from EBI accession no. GSN:AAD05499 Database accession no. AAD05499	1,20,23
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X	DATABASE DBSNP 19 July 2001 (2001-07-19), "rs2233988" XP002317834 retrieved from NCBI Database accession no. RS2233988 cited in the application abstract -----	1,6,7,23
Y	-----	2-5
X	DATABASE DBSNP 19 July 2001 (2001-07-19), XP002317835 retrieved from NCBI Database accession no. RS2233989 cited in the application abstract -----	6,7
X	DATABASE DBSNP 2 September 2000 (2000-09-02), XP002317836 retrieved from NCBI Database accession no. RS846664 cited in the application abstract -----	6,7
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X	BERND BUFE: "Dissertation zur Erlangung des Doktorgrades an der Universität Potsdam: Identifizierung und Charakterisierung von Bitterrezeptoren" 'Online! May 2003 (2003-05), , POTSDAM , XP002318541 Retrieved from the Internet: URL: http://pub.ub.uni-potsdam.de/2004/0013/bufe.pdf 'retrieved on 2005-02-17!	1,6,7, 23-25
Y	page 61 - page 64	26-49
X	BUFE BERND ET AL: "The human TAS2R16 receptor mediates bitter taste in response to beta-glucopyranosides" NATURE GENETICS, vol. 32, no. 3, November 2002 (2002-11), pages 397-401, XP002318540 ISSN: 1061-4036 the whole document	1,6,7
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X	WO 03/006482 A (SENOYX, INC; PRONIN, ALEXEY; CONNOR, JUDY; TANG, HUIXIAN; KEUNG, WALT) 23 January 2003 (2003-01-23) *seq id 9*	1,17,18,34
A	----- SHI PENG ET AL: "Adaptive diversification of bitter taste receptor genes in Mammalian evolution." MOLECULAR BIOLOGY AND EVOLUTION. MAY 2003, vol. 20, no. 5, May 2003 (2003-05), pages 805-814, XP002302157 ISSN: 0737-4038 cited in the application table 1	1-49
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P,X	----- WO 2004/029087 A (MEYERHOF WOLFGANG ; BUFE BERND (DE); HOFMANN THOMAS (DE); KUHN CHRISTI) 8 April 2004 (2004-04-08) the whole document -----	1-49

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Information on patent family members

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